

## REMARKS

Claims 3 - 7 are now in this application. Claims 1 - 5 are rejected. Claims 1 and 2 are canceled. New claims 6 and 7 are added. Claims are amended herein to clarify the subject matter of the invention.

I submit herewith a substitute specification. Also accompanying this amendment is a reproduction of the original specification and abstract with markings indicating the amendments effected in the substitute specification. The substitute specification does not contain new matter. Entry of the substitute specification and abstract is respectfully requested.

Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Polsky (5,445,380) in view of Pistorius (2,012,400). I herein respectfully traverse the rejections. For a rejection under 35 U.S.C. 103(a) to be sustained, the differences between the features of the combined references and the present invention must be obvious to one skilled in the art. Claim 1 is now cancelled. Claim 4 is a dependent claim of claim 3.

Claim 3 recites:

“joined pieces which are arranged at said puzzle body divided by said score lines, capable of joining said joined piece as an individual piece and fitting together as at least one drawing, letter and the like, forming is the shape of a frame;

a perforated line which is formed at a predetermined one portion on said score lines adjacent the outer circumferential part of said puzzle body, capable of tearing one line along said perforated line; and

a separation part which is formed at a center part of said puzzle body, capable of tearing from said puzzle body”

The Examiner cites the Polsky reference for teaching the score lines and Pistorius reference for teaching the cut line. However, both references are not disclosed the combination of the joined pieces formed is the shape of a frame, a perforated line formed at a predetermined one portion on the score lines capable of tearing one line along said perforated line and a separation part capable of tearing from said puzzle body. Thus, it is impossible to cut one portion on the joined pieces and to tear the separation part from the puzzle body. Therefore, the combination cited by the Examiner cannot render obvious the subject matter of claim 3 because it fails to teach or suggest all the claimed features providing the solution to the problem of showing the information. Accordingly, the combination cited by the Examiner cannot render obvious the subject matter of claim 4 because it is a dependent claim of claim 3.

Claims 2, 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matos (5,735,520) in view of Pistorius (2,012,400). I herein respectfully traverse the rejections. For a rejection under 35 U.S.C. 103(a) to be sustained, the differences between the features of the combined references and the present invention must be

obvious to one skilled in the art. Claim 2 is now cancelled. Claim 4 is a dependent claim of claim 3. Claim 5 is a dependent claim of claim 3.

Claim 4 recites:

“score lines which are arranged on said puzzle body at predetermined interval in a longitudinal and horizontal directions;

joined pieces which are arranged at said puzzle body divided by said score lines, capable of joining said joined piece as an individual piece and fitting together as at least one drawing, letter and the like, forming is the shape of a frame;

a perforated line which is formed at a predetermined one portion on said score lines adjacent the outer circumferential part of said puzzle body, capable of tearing one line along said perforated line; and

a separation part which is formed at a center part of said puzzle body, capable of tearing from said puzzle body, and

wherein the score lines are arranged on said puzzle body at predetermined interval in a longitudinal and horizontal directions on said puzzle body so as to divide by three parts in said puzzle body”.

Also claim 5 recites:

“score lines which are arranged on said puzzle body at predetermined interval in a longitudinal and horizontal directions;

joined pieces which are arranged at said puzzle body divided by said score lines,

capable of joining said joined piece as an individual piece and fitting together as at least one drawing, letter and the like, forming is the shape of a frame;

a perforated line which is formed at a predetermined one portion on said score lines adjacent the outer circumferential part of said puzzle body, capable of tearing one line along said perforated line; and

a separation part which is formed at a center part of said puzzle body, capable of tearing from said puzzle body, and

wherein said separation part has a description about how to play said puzzle”.

The Examiner cites the Matos reference for teaching the score lines and Pistorius reference for teaching the cut line. However, both references are not disclosed the combination of the joined pieces formed is the shape of a frame, a perforated line formed at a predetermined one portion on the score lines capable of tearing one line along said perforated line and a separation part capable of tearing from said puzzle body. In addition, both references are not disclosed the combination of the joined pieces formed is the shape of a frame, a perforated line formed at a predetermined one portion on the score lines capable of tearing one line along said perforated line and a separation part capable of tearing from the puzzle body, having a description about how to play the puzzle. Thus, it is impossible to cut one portion on the joined pieces and to tear the separation part from the puzzle body. Therefore, the combination cited by the Examiner cannot render obvious the subject matter of claims 4 and 5 because it fails to teach or

suggest all the claimed features providing the solution to the problem of showing the information.

Claims 3, 4/3 and 5/3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matos (5,735,520) in view of Pistorius (2,012,400) and Polsky (5,445,380). I herein respectfully traverse the rejections. For a rejection under 35 U.S.C. 103(a) to be sustained, the differences between the features of the combined references and the present invention must be obvious to one skilled in the art. Claim 3 is an independent claim. Claim 4 is a dependent claim of claim 3. Claim 5 is a dependent claim of claim 3.

Claim 3 recites:

“joined pieces which are arranged at said puzzle body divided by said score lines, capable of joining said joined piece as an individual piece and fitting together as at least one drawing, letter and the like, forming is the shape of a frame;

a perforated line which is formed at a predetermined one portion on said score lines adjacent the outer circumferential part of said puzzle body, capable of tearing one line along said perforated line; and

a separation part which is formed at a center part of said puzzle body, capable of tearing from said puzzle body”

The Examiner cites the Matos reference for teaching the score lines and Pistorius reference for teaching the cut line. However, both references are not disclosed the combination of the joined pieces formed is the shape of a frame, a perforated line formed

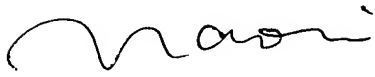
at a predetermined one portion on the score lines capable of tearing one line along said perforated line and a separation part capable of tearing from said puzzle body. In addition, both references are not disclosed the combination of the joined pieces formed is the shape of a frame, a perforated line formed at a predetermined one portion on the score lines capable of tearing one line along said perforated line and a separation part capable of tearing from the puzzle body, having a description about how to play the puzzle. Thus, it is impossible to cut one portion on the joined pieces and to tear the separation part from the puzzle body. Therefore, the combination cited by the Examiner cannot render obvious the subject matter of claim 3 because it fails to teach or suggest all the claimed features providing the solution to the problem of showing the information. Accordingly, the combination cited by the Examiner cannot render obvious the subject matter of claims 4 and 5 because it fails to teach or suggest all the claimed features providing the solution to the problem of showing the information.

Claims 6 and 7 are added newly. Dependent claims 6 and 7 are patentable based on the subject matter cited therein in addition to the subject matter of claim 3.

Thus, it is respectfully submitted that the rejected claims are not obvious in view of the cited references for the reason stated above. Reconsideration of the rejections of claims 3 - 5 and added claims 6 and 7 and their allowance are respectfully requested.

In light of the foregoing, the application is now believed to be in proper form for allowance of all claims and notice to that effect is earnestly solicited.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Naomi', with a stylized, flowing script.

Naomi Matsumoto

Enc: Substitute Specification; and Marked reproduction.

# PUZZLE

## FIELD OF THE INVENTION

5    [0001] This invention relates to ~~the~~ a puzzle which joins a drawing, letter and the like ~~in~~ at the folding state ~~where it folded up~~.

## BACKGROUND OF THE INVENTION

10   [0002] The conventional puzzle is joined ~~in the state which~~ after the center piece of puzzle sheet already clipped or the state which the cutting part is already contained.

[0003] Therefore, since there are many pieces which put together and the putting the puzzle together is complicated mostly in the conventional puzzle sheet, it cannot join simply which everyone can enjoy.

15   [0004] Moreover, since the description is printed inside the puzzle and is printed another sheet, it is very hard to see.

## SUMMARY OF THE INVENTION

20   [0005] Accordingly, it is an object of the present invention to provide a puzzle which can enjoy everyone, and it is easy to join the pieces of the puzzle. Moreover, it achieves the attractive puzzle.

[0006] The present invention is understood to encompass embodiments which include all or only a portion of the above objects, features and advantages which, unless recited in claims  
25   defining the invention, are understood not to limit interpretation of such claims. The above, and other objects, features and advantages of the present invention will become apparent from



the following description read in conjunction with the accompanying drawings, in which like reference numerals designate the same elements.

[0007] It is to be expressly understood, however, that the drawings are for the purpose of illustration and description only, and are not intended as a definition of the limits of the invention.

## **BRIEF DESCRIPTION OF THE DRAWINGS**

[0008] FIG. 1 is a front view showing a first embodiment of the present invention;

[0009] FIG. 2 is a schematic explanation view when in use;

[0010] FIG. 3 is a schematic explanation view showing the way in which a puzzle is joined;

[0011] FIG. 4 is a schematic explanation view;

[0012] FIG. 5 is a front view showing a second embodiment of the present invention;

[0013] FIG. 6 is a schematic explanation view when in use;

[0014] FIG. 7 is a front view showing a third embodiment of the present invention;

[0015] FIG. 8 is a schematic explanation view when in use;

[0016] FIG. 9 is a front view showing a fourth embodiment of the present invention;

[0017] FIG. 10 is a schematic explanation view when in use;

[0018] FIG. 11 is a schematic explanation view showing the way in which a puzzle is joined;

[0019] FIG. 12 is a front view showing a fifth embodiment of the present invention; and

[0020] FIG. 13 is a schematic explanation view when in use.

## **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

[0021] Preferred embodiments of the present invention are described in more detail below referring to the accompanying drawings. An understanding of the present invention may be

best gained by reference FIGS. 1 to 4. The numeral 1 shows a puzzle in the present invention. The puzzle 1 is comprised of a puzzle body 2 which is formed in the shape of a square, or rectangle or the like, the square shape in this embodiment, having a sheet shape; score lines 3 which are arranged on the puzzle body 2 at predetermined interval in a longitudinal and horizontal directions on the puzzle body 2 so as to divide by three parts in the puzzle body 2; joined pieces 4 which are arranged at least one surface of the puzzle body 2, capable of joining the joined piece 4 as an individual piece and fitting together as a one drawing, letter M and the like, forming is the shape of a frame; a perforated line 5 which is formed at a predetermined one portion on the score lines 3 adjacent the outer circumferential part of the puzzle body 2, capable of tearing one line along the perforated line 5; and a separation part 6 which is formed at a center part of the puzzle body 2 via a perforated line 5a so as to be able to tear along the perforated line 5a from the puzzle body 2.

[0022] The joined pieces 4 are drawn at least one letter, picture M or the like on the joined pieces 4, one piece of the joined pieces 4 is drawn one part of the letter, picture M or the like.

One letter or picture is completed when the joined piece 4 is put together. When the separation part 6 is torn from the puzzle body 2, the joined pieces 4 is formed in the shape of a frame.

[0023] For the separation part 6 in this embodiment, the description about how to play the puzzle of this invention is printed to the surface thereof.

[0024] In the puzzle 1, when in use, the perforated line 5 and 5a are torn, and the separation part 6 is torn from the puzzle body 2 as shown in FIG. 2. Moreover, the eight pieces as the joined pieces 4 are performed by a mountain fold, valley fold and free fold along the score lines 3. As shown in FIG. 4, four pieces that appear in the surface of the puzzle body can complete at least one character, picture or the like.

[0025] Therefore, the number of the joined pieces 4 can be decreased. Therefore, there are many combinations, and it is easy to join the letter, picture M or the like. Moreover, it can be used in the attractive state as a sales promotion article, premium exchange ticket, etc. as shown

in FIG. 4.

[0026] In addition, the joined pieces 4 which are arranged at one surface of the puzzle body 2 is explained in this embodiment. Moreover, the joined pieces 4 may be arranged both surfaces or back surface of the puzzle body 2.

5 [0027] Other embodiments of the present invention will now be described referring to FIGS. 5 to . Through the drawings of the embodiments, like components are denoted by like numerals as of the first embodiment and will not be further explained in great detail.

[0028] A second embodiment of the present invention is shown in Figs. 5 - 6. It is distinguished from the first embodiment in that the perforated lines 5 is formed at an eight  
10 portions on the score lines 3 adjacent the outer circumferential part of the puzzle body 2A, capable of tearing along the perforated lines 5. Accordingly, a puzzle 1A with the puzzle body 2A according to the second embodiment will provide similar advantages to that according to the first embodiment. Moreover, the user can select any perforated line 5 and can tear along the line 5.

15 [0029] A third embodiment of the present invention is shown in Figs. 7 - 8. It is distinguished from the first embodiment in that the separation part 6 is formed at a center part of the puzzle body 2 via a perforated line 5a so as t be able to tear along the perforated line 5a from the puzzle body 2B without the perforated line 5. Accordingly, a puzzle 1B according to the third embodiment will provide similar advantages to that according to the first embodiment.

20 [0030] A fourth embodiment of the present invention is shown in Figs. 9 - 11. It is distinguished from the first embodiment in that joined pieces 4 and 4A are arranged at least one surface of the puzzle body 2C, capable of joining the joined piece 4 and 4A and fitting together as a two drawings, letters M, N and the like. Accordingly, a puzzle 1C according to the fourth embodiment will provide similar advantages to that according to the first  
25 embodiment.

[0031] A fifth embodiment of the present invention is shown in Figs. 12 - 13. It is

distinguished from the first, second third and fourth embodiments in that the score lines 3 are arranged at predetermined interval in a longitudinal and horizontal directions so as to divide by four parts in the puzzle body 2D. Accordingly, a puzzle 1D according to the fifth embodiment will provide similar advantages to that according to the first, second, third and fourth  
5 embodiment.

[0032] Moreover, the score lines 3 which are divided by four parts in the puzzle body are explained in this embodiment, and the lines which are divided by five, six parts or the like in the puzzle body may be used the joining may be completed. Then it can revitalize the game.

[0033] Furthermore, although each embodiment differs mainly explained based on the first  
10 embodiment, when the composition used for each embodiment uses the present invention is combined, the same effect is achieved.

[0034] As set forth above, the advantages of the invention are as follows:

[0035] (1) The puzzle includes a puzzle body; score lines which are arranged on the puzzle body at predetermined interval in a longitudinal and horizontal directions; joined pieces which  
15 are arranged at the puzzle body divided by the score lines, capable of joining the joined piece as an individual piece and fitting together as at least one drawing, letter and the like, forming is the shape of a frame; ~~and~~ a perforated line which is formed at a predetermined portion on the score lines adjacent the outer circumferential part of the puzzle body, capable of tearing along the perforated line; and a separation part which is formed at a center part of the puzzle body,  
20 capable of tearing from said puzzle body. Therefore, the number of the score lines can be decreased, and it is easy to join the letter, picture or the like.

[0036] (2) As discussed above, everyone can enjoy, and it can be used in the attractive state.

[0037] (3) As discussed above, it can manufacture cheaply and easily.

[0038] (4) As discussed above, many joining ways are achieved.

~~(5) Also claims 2,3,4 and 5 have the same effect as the above (1) to (4).~~

# **PUZZLE**

## **FIELD OF THE INVENTION**

5 [0001] This invention relates to a puzzle which joins a drawing, letter and the like at the folding state.

## **BACKGROUND OF THE INVENTION**

10 [0002] The conventional puzzle is joined after the center piece of puzzle sheet already clipped or the state which the cutting part is already contained.

[0003] Therefore, since there are many pieces which put together and the putting the puzzle together is complicated mostly in the conventional puzzle sheet, it cannot join simply which everyone can enjoy.

15 [0004] Moreover, since the description is printed inside the puzzle and is printed another sheet, it is very hard to see.

## **SUMMARY OF THE INVENTION**

20 [0005] Accordingly, it is an object of the present invention to provide a puzzle which can enjoy everyone, and it is easy to join the pieces of the puzzle. Moreover, it achieves the attractive puzzle.

[0006] The present invention is understood to encompass embodiments which include all or only a portion of the above objects, features and advantages which, unless recited in claims  
25 defining the invention, are understood not to limit interpretation of such claims. The above, and other objects, features and advantages of the present invention will become apparent from

the following description read in conjunction with the accompanying drawings, in which like reference numerals designate the same elements.

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[0012] FIG. 5 is a front view showing a second embodiment of the present invention;

[0013] FIG. 6 is a schematic explanation view when in use;

[0014] FIG. 7 is a front view showing a third embodiment of the present invention;

[0015] FIG. 8 is a schematic explanation view when in use;

[0016] FIG. 9 is a front view showing a fourth embodiment of the present invention;

[0017] FIG. 10 is a schematic explanation view when in use;

[0018] FIG. 11 is a schematic explanation view showing the way in which a puzzle is joined;

[0019] FIG. 12 is a front view showing a fifth embodiment of the present invention; and

[0020] FIG. 13 is a schematic explanation view when in use.

## **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

[0021] Preferred embodiments of the present invention are described in more detail below referring to the accompanying drawings. An understanding of the present invention may be

best gained by reference FIGS. 1 to 4. The numeral 1 shows a puzzle in the present invention. The puzzle 1 is comprised of a puzzle body 2 which is formed in the shape of a square, or rectangle or the like, the square shape in this embodiment, having a sheet shape; score lines 3 which are arranged on the puzzle body 2 at predetermined interval in a longitudinal and horizontal directions on the puzzle body 2 so as to divide by three parts in the puzzle body 2; joined pieces 4 which are arranged at least one surface of the puzzle body 2, capable of joining the joined piece 4 as an individual piece and fitting together as a one drawing, letter M and the like, forming is the shape of a frame; a perforated line 5 which is formed at a predetermined one portion on the score lines 3 adjacent the outer circumferential part of the puzzle body 2, capable of tearing one line along the perforated line 5; and a separation part 6 which is formed at a center part of the puzzle body 2 via a perforated line 5a so as to be able to tear along the perforated line 5a from the puzzle body 2.

[0022] The joined pieces 4 are drawn at least one letter, picture M or the like on the joined pieces 4, one piece of the joined pieces 4 is drawn one part of the letter, picture M or the like.

One letter or picture is completed when the joined piece 4 is put together. When the separation part 6 is torn from the puzzle body 2, the joined pieces 4 is formed in the shape of a frame.

[0023] For the separation part 6 in this embodiment, the description about how to play the puzzle of this invention is printed to the surface thereof.

[0024] In the puzzle 1, when in use, the perforated line 5 and 5a are torn, and the separation part 6 is torn from the puzzle body 2 as shown in FIG. 2. Moreover, the eight pieces as the joined pieces 4 are performed by a mountain fold, valley fold and free fold along the score lines 3. As shown in FIG. 4, four pieces that appear in the surface of the puzzle body can complete at least one character, picture or the like.

[0025] Therefore, the number of the joined pieces 4 can be decreased. Therefore, there are many combinations, and it is easy to join the letter, picture M or the like. Moreover, it can be used in the attractive state as a sales promotion article, premium exchange ticket, etc. as shown

in FIG. 4.

[0026] In addition, the joined pieces 4 which are arranged at one surface of the puzzle body 2 is explained in this embodiment. Moreover, the joined pieces 4 may be arranged both surfaces or back surface of the puzzle body 2.

5 [0027] Other embodiments of the present invention will now be described referring to FIGS. 5 to . Through the drawings of the embodiments, like components are denoted by like numerals as of the first embodiment and will not be further explained in great detail.

[0028] A second embodiment of the present invention is shown in Figs. 5 - 6. It is distinguished from the first embodiment in that the perforated lines 5 is formed at an eight  
10 portions on the score lines 3 adjacent the outer circumferential part of the puzzle body 2A, capable of tearing along the perforated lines 5. Accordingly, a puzzle 1A with the puzzle body 2A according to the second embodiment will provide similar advantages to that according to the first embodiment. Moreover, the user can select any perforated line 5 and can tear along the line 5.

15 [0029] A third embodiment of the present invention is shown in Figs. 7 - 8. It is distinguished from the first embodiment in that the separation part 6 is formed at a center part of the puzzle body 2 via a perforated line 5a so as t be able to tear along the perforated line 5a from the puzzle body 2B without the perforated line 5. Accordingly, a puzzle 1B according to the third embodiment will provide similar advantages to that according to the first embodiment.

20 [0030] A fourth embodiment of the present invention is shown in Figs. 9 - 11. It is distinguished from the first embodiment in that joined pieces 4 and 4A are arranged at least one surface of the puzzle body 2C, capable of joining the joined piece 4 and 4A and fitting together as a two drawings, letters M, N and the like. Accordingly, a puzzle 1C according to the fourth embodiment will provide similar advantages to that according to the first  
25 embodiment.

[0031] A fifth embodiment of the present invention is shown in Figs. 12 - 13. It is



distinguished from the first, second third and fourth embodiments in that the score lines 3 are arranged at predetermined interval in a longitudinal and horizontal directions so as to divide by four parts in the puzzle body 2D. Accordingly, a puzzle 1D according to the fifth embodiment will provide similar advantages to that according to the first, second, third and fourth  
5 embodiment.

[0032] Moreover, the score lines 3 which are divided by four parts in the puzzle body are explained in this embodiment, and the lines which are divided by five, six parts or the like in the puzzle body may be used the joining may be completed. Then it can revitalize the game.

[0033] Furthermore, although each embodiment differs mainly explained based on the first  
10 embodiment, when the composition used for each embodiment uses the present invention is combined, the same effect is achieved.

[0034] As set forth above, the advantages of the invention are as follows:

[0035] (1) The puzzle includes a puzzle body; score lines which are arranged on the puzzle body at predetermined interval in a longitudinal and horizontal directions; joined pieces which  
15 are arranged at the puzzle body divided by the score lines, capable of joining the joined piece as an individual piece and fitting together as at least one drawing, letter and the like, forming is the shape of a frame; a perforated line which is formed at a predetermined portion on the score lines adjacent the outer circumferential part of the puzzle body, capable of tearing along the perforated line; and a separation part which is formed at a center part of the puzzle body,  
20 capable of tearing from said puzzle body. Therefore, the number of the score lines can be decreased, and it is easy to join the letter, picture or the like.

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